



FACILITY COMPLIANCE INSPECTION REPORT

Division of Waste Management Solid Waste Section

UNIT TYPE:										
Lined MSWLF		LCID		YW		Transfer		Compost		COUNTY: Alamance PERMIT NO.: 01-02 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incinerator	X	T&P		
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		

Date of Site Inspection: May 30, 2012 **Date of Last Inspection:** May 3, 2011

FACILITY NAME AND ADDRESS:

Stericycle, Inc. Medical Waste Incinerator Facility
 1168 Porter Avenue
 Haw River, NC 27258

GPS COORDINATES: N: 36.06599 E: -79.34881

FACILITY CONTACT NAME AND PHONE NUMBER:

Stericycle, Inc.
 A. Alan Skrzypczak, Facility Manager
 w. 336-578-8900 x.24
 c. 336-269-2140
 f. 336-578-8900
askrzypczak@stericycle.com

FACILITY CONTACT ADDRESS:

Stericycle, Inc.
 A. Alan Skrzypczak, Facility Manager
 PO Box 310
 Haw River, NC 27258

PARTICIPANTS

John Patrone, NCDENR – Solid Waste Section (SWS)
 A. Alan Skrzypczak, Facility Manager, Stericycle, Inc.
 Don Nuss, Regional Env. Manager (Atlantic Region), Stericycle, Inc.

STATUS OF PERMIT:

Permit To Operate (PTO) issued May 4, 2012
 PTO expiration date January 31, 2016

PURPOSE OF SITE VISIT:

Comprehensive Audit

STATUS OF PAST NOTED VIOLATIONS:

None

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OBSERVED VIOLATIONS

None

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

ADDITIONAL COMMENTS

On May 30, 2012, John Patrone met with Alan Skrzypczak and Don Nuss to conduct a comprehensive audit of the Stericycle, Inc. Medical Waste Incinerator Facility on Porter Avenue in Haw River, Alamance County.

1. The facility is a medical waste treatment operation consisting of two incineration units.
2. During the inspection both incinerators were in operation.
3. The facility incinerates medical waste (regulated and non-regulated), United States Department of Agriculture (USDA) Animal and Plant Health Inspection Service Plant Protection and Quarantine (APHIS-PPQ) regulated garbage, controlled substances, chemotherapeutic waste, healthcare industry documents, and pharmaceuticals.
4. Stericycle, Inc. vehicles transport ~ 99 percent of the material it receives.
5. The office is open Monday through Friday 8:00 am to 5:00 pm. Incineration occurs 24 hours, 7 days a week.
6. The facility has accepted waste material from various states, Washington, DC and Puerto Rico.
7. The facility permit, site plan, operations plan, and contingency plan were discussed.
8. The facility provides health and safety training for plant personnel and incinerator operators, updated as needed. Incinerator operators are also trained in incineration operations, updated annually. Employee files were verified representative of health and safety training and incinerator operation.
9. All regulated medical waste containers have a barcode containing generator and material information. The barcode is scanned upon incineration. Scanned information is sent to a database noting treatment date, disposal information, etc.
10. The facility maintains records of the amount of solid waste received and origins of loads. Records were verified for September 2011: 80,540 containers received weighing 2,273,400.40 lbs and for January 1 through 15, 2012: 37,182 containers received weighing 1,007,542.72 lbs. In April 2012, both incinerators processed 2,110,908.5 lbs of material averaging 3,313 lbs/hour.
11. The facility annual report (FAR) dated July 21, 2011 was received by the SWS. Facility throughput for July 2010 through June 2011 is 26,366,768.12 lbs. The amount of ash produced from incineration during the same time period is 4,246.50 tons.
12. Incinerator ash is disposed of at the Upper Piedmont Regional Landfill – Republic Services of North Carolina LLC (73-04).
13. Ashe is stored on site in 20 yd³ roll-off containers. Commonly, two containers are filled with ash each day. Six days a week, two containers a day are hauled to the landfill.
14. The facility has five scales (within the operations area): two floor scales, two belt scales, and a portable scale. The scales were tested by Carlton Scale on April 11, 2012 and January 9, 2012, zero error indicated.
15. The facility has a Division of Air Quality (DAQ) Title V permit, number 05896/T20, issued 03/01/12 – expiration 01/31/16.
16. The facility conducted its most recent emissions test in March 2012. Available data on file references the previous emissions test conducted March 22, 2011. The results were found to be acceptable. The emission sources tested are two natural gas automatic feed dual chamber controlled air Joy Energy Systems, Inc. T-Series incinerators, model number 2500 TES.
17. Mr. Skrzypczak stated that it is common for both incinerators to be in operation. Maintenance is conducted ~ every 3 or 4 weeks, for ~ 4 days per incinerator.

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18. The maximum charging rate for each incinerator is 1,911 lbs/hr. The secondary chamber retention time is 2.28 seconds @ 2000 °F or 2.02 seconds @ 1800 °F and the processing capacity for both units is 91,728 lbs/day.
19. If the facility plans to increase the charging rate of the incinerators, the SWS-Permitting Branch shall be contacted prior to a change in operation.
20. The facility maintains continuous monitoring records of the primary and secondary chamber temperatures. Records were verified for May 29, 2012, January 13, 2012, and October 8, 2011. Records indicate that the temperature in the primary chamber was maintained > 1200 °F and temperature in the secondary chamber was maintained ≥ 1800 °F.
21. During the inspection incinerator unit No. 1 was operating at 1716 °F in the primary chamber and 1942 °F in the secondary chamber. And incinerator unit No. 2 was operating at 1821 °F in the primary chamber and 2021 °F in the secondary chamber.
22. The facility has an Industrial User Pretreatment Permit (No. 0030) from the City of Graham issued July 1, 2011 – expiration June 30, 2016.
23. Facility floor drains and incinerator scrubbers are piped to the City of Graham wastewater treatment plant (WWTP).
24. Ash from each incinerator is processed through a water quench and into a roll-off container. Containers are dewatered on a covered cement slab with floor drains to tanks for reuse in the incinerator ash water quench process.
25. Reusable containers are washed with a mycobactericidal disinfectant adjacent to the incinerators after off-loading the contents (floor drains piped to the WWTP).
26. Vehicle trailers are cleaned with a pressure washer and mycobactericidal disinfectant in the truck wash bay. Floor drains are piped to tanks for reuse in the incinerator ash water quench process.
27. The facility conducts two representative ash samples annually. It conducts a toxicity characteristic leaching procedure (TCLP), paint filter test for liquids, and pH. Results were reviewed for samples analyzed by Pace Analytical Services, Inc. on November 11, 2011 and May 22, 2012. Composite samples are gathered from a 20 yd³ roll-off container. The facility also conducts two tests for lead, independent of the TCLP tests.
28. Mr. Skrzypczak stated that a contingency plan is maintained in each vehicle and that drivers are familiar with the plan.
29. The universal biohazard symbol was observed displayed on vehicles.
30. Ensure regulated medical waste refrigerated is at an ambient temperature between 35 and 45 °F.
31. Regulated medical waste not treated within seven calendar days after shipment from the generator shall be refrigerated.
32. Within 15 days of receipt of this inspection report, provide SWS-Permitting Branch an amended facility operations plan outlining the procedure to ensure regulated medical waste is treated within seven calendar days of shipment from the generator if not refrigerated.
33. Ensure the facility has proper signage providing pertinent information to include: permit number, contact information, and hours of operation.
34. Ensure the facility operations plan is updated to reflect the NCDENR – WSRO phone number: 336-771-5000. Update additional facility documents as necessary.
35. Access roads are of all weather construction.
36. The facility is secured by a locked gate.
37. The PTO expiration date is January 31, 2016.
38. The PTO renewal application shall be submitted to the SWS by July 31, 2015.

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Please contact me if you have any questions or concerns regarding this inspection report.



John Patrone
Environmental Senior Specialist
Regional Representative

Phone: 336-771-5095 Fax: 336-771-4631

Sent on: <u>July 6, 2012</u>	<input checked="" type="checkbox"/>	Email	<input type="checkbox"/>	Hand delivery	<input type="checkbox"/>	US Mail	<input type="checkbox"/>	Certified No. <input type="text"/>
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Copies: Jason Watkins, Western District Supervisor
Jessica Montie, Compliance Officer
Ellen Lorscheider, Environmental Supervisor
Larry Frost, Environmental Engineer
Bill Patrakis, Senior Environmental Scientist
Don Nuss, Stericycle (c. 513-543-7073, dnuss@stericycle.com)